

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>
Subject: Re: 32V-3 transformer problem
Message-ID: <Pine.A32.3.91.951127085153.53069A-100000@violin.aix.calpoly.edu>

On the problem of the 32V's. A closer inspection showed that the xfmr was very near one of the rectifier tubes. As probably is already common knowledge, the black-body of the xfmr does a fine job in picking up extra heat from the 5R4. I get the impression many a transformer cooked off this way. One way to solve this (without reverting to SS replacement rect0 is to create a bolt on heat shield (painted white) to reflect off the offending heat. Or, one can go the route of solid stating the 'V. Let me know of your problem solving on this matter. In the meantime, I have to shoehorn this P.Dahl replacement for my 'V-2. 73's. Cal, N6KYR.

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: 32V-3 transformer problem
Message-ID: <9511271913.AA06960@bock.ih.att.com>

Hmmmm...NOW we know why 1937-38 vintage Philco radios mounted the rectifier socket on top of the xformer -- the radiant heat went out into free space above the chassis, no way to get down to the xformer. Helps with convection heat too.
73, mike k w9nrd

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)
Subject: Re: 32V-3 transformer problems
Message-ID: <9511271609.AA00563@amos.YP.mystnite>

The impregnated LV (hi) xfmr is THE weak point in these rigs. I bet only a small fraction survive with the mfg's unit. Just normal service takes them to unusually hi temp.s & I bet this eventually weakens the enamel insulation, turns short, & the inevitable happens.

The 'V3 has all HV oil-filled paper units in the LV filter chain so it's unlikely there'd ever be trub.s there.

I've outboarded a TV xfmr in several of these units with SS diode rect.s & cap. input to get up to the 475 V or so to run the 0A3 VR inside for the -75V 'Give away' in the supply negative return that supplies bias all around.

One possibility is to take 10w outa a survivor xfmr by solid stating the

5Z4 (did I say that?)

best,

Marty

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Re: 32V-3 transformer problems
Message-ID: <Pine.3.89.9511271208.C23650-0100000@unixs3.cis.pitt.edu>

One last word on the LV transformer in the Collins 32V series transmitters.

One thing that is overlooked in this matter is to place a milliamperere meter in series with the low voltage lead. Screen bypass capacitors in the 4D32 amplifier circuit can place additional current drain on the power supply. I am not quite sure what the correct current drain is coming from the low voltage power supply, It certainly should be within the parameters of the transformer. Why manufacturers never bothered to measure the low voltage current lead is beyond me. It certainly would tell the operator if the rig was drawing "excessive current."

By the way, Collins built them right and I suspect that the leaky bypass capacitors may be part of the explanation for the premature failure. I wish I could remember who sent me this tip.

Dave, W3BJZ

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: 32V-3 transformer problems
Message-ID: <9511271917.AA06964@bock.ih.att.com>

Did Collins ever market an "Official" S-S plug-in replacement for the 5Z4, like they did for the KWM-2's 5V4?

My M-2 came with such a plug-in, and it's really cool compared to the "low voltage" 5-whatever-4 tube next to it.
I thought I'd heard that an S-S module was available for the LV tube also.

Anyway, since this is blessed, baptized, and kosher-salted by Collins, it won't desecrate your rig, and you can always keep the original tube handy for when visitors stop by :-) 73, mike k w9nrd

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: Ken Harrison <harrisok@SONOMA.EDU>

Subject: 833A, 250TL, 803...

Message-ID: <Pine.PMDF.3.91.951127134210.1077996249A-1000000@SONOMA.EDU>

The ham radio portion of an estate was recently donated to a high school radio club (in the formation process) and among the goodies was a box of tubes. I looked up the specs in an older copy of the ARRL handbook but I was wondering what sort of equipment (brands, models) used these tubes. The tubes are a 833A by RCA, three 803's by RCA dated Apr. 1943, two 832A's by RCA, and five VT 130/250TL's (three by JAN, two by Eimac.)

If nothing else, the tubes look neat and would make a nice display.

Ken

Ken Harrison --- harrisok@vax.sonoma.edu --- Amateur Radio: N6MHG

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995

From: List Admin/Owner BoatAnchor Mail List <listown@jackatak.theporch.com>

Subject: Administrivia: *REMINDER* System Outage

Message-ID: <9511262149.aa16417@jackatak.theporch.com>

Gang-

As a reminder, this Friday, 1 December 1995, the *entire* connection to the InterNet for our ISP *WILL* be down from 07:00 to midnight... Not *just* theporch.com, but ALL systems connected through the ISP we use!

We hope things will go according to plan, but since we know in advance,

PLEASE EVERYONE... be patient and do not ping the list or send duplicates because you do not see a submission reflected back... it *won't* happen, and when we do come back on line, that would make the recovery really difficult and more problematic...

PLEASE help us out and try to remember to "Go Lite" on Friday!

Thanks.

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
firebot1@jackatak.theporch.com ---- listown@jackatak.theporch.com

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: n5off@w5ddl.aara.org
Subject: Aircraft Radio Rails
Message-ID: <234650@w5ddl.aara.org>

You can scarf those rails up from any junk mil aircraft. I was in Titusville Fla a couple of days ago, and the Valiant Air Command has a couple of UH-1 and Mohawk carcasses that they might carve the rails out of for you. Pick up a copy of Trade-a-Plane, and look for a dealer who has UH-1's, Bell 204's and 205's. Perhaps they have a nice junker they wouldn't mind carving up.

Bonne Chance de tom n5off

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: ANDY'S STUFF FOR SALE/TRADE (mil + xtals)
Message-ID: <9511270116.AA07893@kali>

ANDY'S LIST OF STUFF FOR SALE/TRADE!
11/26/95

Eight VALPEY CM1 CRYSTALS: Body 1.25 x 1.5 x 0.5, similar construction to an FT243. Pins 1/2" long, 1/8" wide, 3/4" spacing. I don't know if these are marine band crystals or not... Freqs: 2366, 2406, 2637, 2638, 2738, 2805, 2961, and 3093. Untested but excellent shape.

6V --> 335VDC inverter. Type S-1364, 1944 inspection tag still attached, two terminals for B+/input, plus binding post for ground. Untested, appears new. Base is 5 1/2 by 2 7/8", plus 3-hole flanges on each end (holes 6 1/2" from one end of base to opposite end). What was this used for? Manufactured by Electronic Laboratories, Inc, of Indiana. Pwr is 15W.

CRV-23253 TUNING HEAD for ARB radio receiver. Conical

disc covering 0.2 - 9 Mc in four bands. Good shape.
See page 275 of Morgan McMahon's FLICK OF THE SWITCH
book for a picture of this Navy receiver. Spline shaft
coupling on the bottom. Crank tuning.

CFL-23285 REMOTE CONTROL UNIT, part of MN radio equipment,
1942 contract. Speaker, Phone pots; receive and transmit
lamps, power switch, octal, 4-pin, and 3-pin connectors
on a housing about 4.5" square. Good shape. What was
the MN, anyway?

Make an offer on any of these things! Or offer to trade
something! One thing I could use right now is a black
wrinkle T-19 ARC-5 transmitter cover -- the "warning"
one over the finals. Nice shape, please! Also looking for
the B+ and audio terminal covers for an NC-183D, FT-243
crystals in the ham bands, HC-6/U crystals for getting
Drake 2-line and 4-line receivers on the SWL bands...
What have you?

Email info to wallace@mc.com or write:
Andy Wallace
P. O. Box 395
Chelmsford, MA 01824-0395

And thank you!

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: dlkerl@elvis.b11.ingr.com (Dan Kerl)
Subject: BC-221 questions...
Message-ID: <199511272031.AA29021@elvis.b11.ingr.com>

Greetings. I really enjoyed the references to C.L. Stong's Amateur
Scientist book. I wore a copy of this book out when I was in school. I
also got prizes at several science fair competitions.

I've recently acquired a BC-221M frequency meter (Bendix). The unit
includes a homebrew power supply that has an OA2 regulator. While the
unit appears to function (after cleaning those dumb headphone jack
filament switch contacts), it has slight stability problems. The
calibration oscillator (crystal unit DC-9-AD, 1000 KC, mfg General

Electric) is waaay off at around 2.3 MC (something loose is in the can, which suggests a broken crystal element.

- o Does anyone have a source for this crystal?
- o Are there any common failures that might cause instability in the VF0?
- o Is 150 V too much plate voltage for this unit, since the only schematic I have (BC-221D) specifies 135V?
- o The settings book S/N matches the unit S/N. However, I have no additional documentation. Does anyone have a suggestion for a source?

I'm also looking for docs on a Hickok 202 NX series B electronic volt-ohm milliammeter.

Thanks in advance,

Dan Kerl
dlkerl@ingr.com

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Terry Pridgen <pridgent@pinn.net>
Subject: Drake 2-B Crystals
Message-ID: <Pine.SUN.3.91.951127100858.8455A-100000@matterhorn>

Will someone please tell me the type of crystals used in the Drake 2-B and a source.
73 pridgent@pinn.net

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Felix Barreras <chonte@prism.nmt.edu>
Subject: Re: Drake 2-B Crystals
Message-ID: <Pine.SUN.3.91.951127092312.29448A-100000@black>

On Mon, 27 Nov 1995, Terry Pridgen wrote:

> Will someone please tell me the type of crystals used in the Drake 2-B
> and a source.
> 73 pridgent@pinn.net

>

Hello Terry

I got my crystals from Jan Crystals and they work just great. Their number is 1-800-jan-xtal or 1-800-jan-xtals. I have had my Drake 2-B for a couple of years and I am quite pleased. I use it with a Drake 2-NT xmtr and have made a few contacts. I have the manuals for both and if you need a copy, let me know.

ps: call Jan and tell them what band(s) you want to work and they will fix you up.

de Felix WB5LXA my email is chonte@prism.nmt.edu

>

>

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: Andy Wallace <wallace@mc.com>

Subject: Re: Drake 2-B Crystals

Message-ID: <9511271713.AA10003@panda>

The crystals are HC-6/U metal cans, and the freq should be + or - 4 MHz of the desired band. So one to cover 11.5-12 Mc would be 15.5 Mc, I believe. (If you subtract, the dial would read in the opposite direction. Wish I had a manual handy!)

Jan Crystals 1-800-JAN-XTAL in FL should be able to make them, probably about \$13 apiece.

Good luck, and enjoy the 2-B!

--Andy

wallace@mc.com

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995

From: pbock@melpar.esys.com (Paul H. Bock)

Subject: egg insulators = johnny balls ?

Message-ID: <9511271659.AA09595@syseng1.se.melpar.esys.com>

>We were discussing the antenna and its use of egg insulators. More
>than once I referred to the insulators as "Johnny Balls". Later I began
>to wonder if anyone else calls them that.

When I started in AM broadcasting back in the '70s, I was told by several oldtimers that the "Johnny Balls" were the two

closely-spaced spherical appurtenances at the base of a series-fed insulated tower, one attached to the tower and the other to the ground plane. They were designed to allow a direct lightning strike to "flash over" and worked in conjunction with the three-turn "lightning retard" wound into the copper tubing feeder between the tower and the tuner. The "balls" were spaced about a half-inch apart.

Never heard the term applied to the guy insulators, but then I only worked in the BC world for about 4 years.....

Paul, K4MSG

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: scott@hpislst.lvld.hp.com
Subject: Fixing loose plate caps
Message-ID: <199511271832.AA112447143@relay.hp.com>

A friend was looking for some information on the best way to re-attach a loose plate cap on a 4D32. Any suggestions on the best glue and solder to use to withstand the heat (particularly the best glue) would be appreciated.

On a related note, Fair Radio has a batch of NOS Raytheon 4D32's for \$35 apiece. Considering the increasing scarcity of 4D32's and the going rates these days, that's a pretty good price. I just ordered a couple for spares.

Scott Turner KG0MR scott@lvld.hp.com

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: staples@staples.lbl.gov (John Staples)
Subject: Floating transformers
Message-ID: <9511272132.AA01371@staples.lbl.gov>

>

>

> On 11/27 Cal Eustaquio wrote:

>

>One possible source is \$\$\$\$\$\$ P. Dahl out of El Paso, Texas. Another is

>Lucas Xfmrs out of Michigan someplace (check issues of ER). But one
>noteworthy item to do when you replace your transformer is to put a
>delrin sheet under the transformer and isolate the transformer from
>chassis ground. The main intent here is to reduce the high-voltage stress
>to the transformer (see the article in ER regarding W6BM's restoration of
>his Collins AM broadcast xmtr). Thatotta do it. Good luck and 73's. Cal.

>
> "Floating" the modulation transformer or the HV transformer of a rig to reduce
> the stress on the insulation sounds like a good way to get somebody killed.
> If a short develops between one of the windings and the iron, no fuse will
> blow. The iron will lay in wait for someone to touch it to see how hot it's
> running, and "good-bye".
>
> 73
> Ed Knobloch K4PF
>

I need to address this issue. The original W6BM article involved the restoration of a commercial broadcast transmitter, where the cabinet is interlocked. It is not unusual practice in broadcast transmitters to already have transformers floated on insulators inside an interlocked cabinet. Ham transmitters, such as the KW-1 and Johnson Desk, are known to have frequently lost the modulation transformer, and also have interlocks on the cabinet. In those transmitters, particularly if the modulation transformer has not already shorted out, it would be considered (by me) to be good preventative maintenance to float it to reduce the voltage stress between the windings and the core.

Knobloch is correct in stating that floating the transformer could be dangerous, and should not be attempted in rigs that do not have interlocked cabinets or some secure way of preventing accidental contact with high voltage is present. In the larger transmitters, such as the above mentioned, where the _entire_ interior of the unit is considered dangerous and is therefore interlocked, transformer floating can be considered safe as long as usual safety precautions are taken including interlocks and automatic grounding of all high voltage leads when the doors are opened. Grounding sticks are also recommended that are used to short to ground transformer cases and other hazards is also recommended. Manually-operated grounding sticks as well as automatic grounding systems are required on our high-voltage systems here at work.

..John Staples, W6BM

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: n7oo@azgate.nj7p.ampr.org (Jack Taylor)
Subject: Forward from PBBS

Message-ID: <1329@azgate.nj7p.ampr.org>

This looks to be an interesting project. Maybe some of the BA'ers in the area can get a tour!

73 de Jack

----- Forwarded message -----

>From n3bpb%kb4cpw@azgate.nj7p.ampr.org Sun Nov 26 19:04:10 1995
Received: from azgate.nj7p.ampr.org by azgate.nj7p.ampr.org (TNOS2.01/U) with SMTP
id AA34725 ; Sun, 26 Nov 95 19:04:10 MST
X-Forwarded-To: kb4cpw
X-BBS-Msg-Type: B
From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: john <johnmb@nando.net>
Subject: Freebie crystals
Message-ID: <9511270115.AA10692@merlin.nando.net>

I ran accross some 7.15909 (but who's counting) Mhz crystals... small metal can, wire leaded units. If you can think of a reason to use them and will send me a SASE, I'll send you a couple.

73

/john wb5oau/4

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: WJoeW@aol.com
Subject: FS R-388
Message-ID: <951126193342_34675480@mail02.mail.aol.com>

I have a decent R-388 with homebrew (but OK) cover I would sell for \$250 plus shipping.

Joe

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: FS R-388
Message-ID: <199511271105.DAA21354@desiree.teleport.com>

>I have a decent R-388 with homebrew (but OK) cover I would sell for \$250 plus shipping.

>

>Joe

I just discovered that I have a R388/URR cover and no R388! I will sell it too. This cover looks original with a complete decal of the R388 schematic inside. It is obviously used, but I see nothing that looks like extra holes or any mechanical damage. Offers accepted until December 5. Add \$5 for shipping.

Stan W7NI@teleport.com

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Steve Ellington <n4lq@iglou.com>
Subject: FS: J.W. Miller Tuner
Message-ID: <Pine.SOL.3.91.951126213442.17476A-100000@iglou2>

Miller 570-T Tuner. Covers AM BC Band. This is a TRF receiver, no oscillator. Designed for high fidelity AM tuning. 600 ohm audio output will drive small speaker but is made to feed into a TUBE amp. Beautiful BA type styling. All black including glossy black chassis. Front panel measures 10.5"h X 19"w. Has 0 to 100 scale on tuning dial surrounded fancy brass trim. Magic eye tuning indicator. AF, RF gain, 10kc heterodyne filter switch on front panel. Very clean, clear sound with good selectivity. Tubes. : 3ea type 71's RF amps, 2ea type 76's audio, 80 rectifier. Looks and works great. \$95 OBO. + shipping

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: WJoew@aol.com
Subject: Gertsch Freq. Meter
Message-ID: <951126215922_34842941@mail02.mail.aol.com>

I have a Gertsch Model FM-3 frequency meter covering 20-1000 Mc. I do not have the power supply or a manual. If anyone would like to have this, I would send it to them for a small donation.

Joe

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: buska@aaic.advantest.com (d.buska@advantest.com)
Subject: Hallicrafters HA-1 Manual Needed
Message-ID: <95112714300068@aaic.advantest.com>

Well folks, I made the mistake today of going up to Radio Recyclers in Milwaukee (snow storm and all) and just had to buy some new goodies for the BA shack.

Picked up the most beautiful National NC-100XA receiver. This was completely refurbished from the component level on up. I mean that every part was removed ,cleaned, painted, shined or replaced. It looks like it just came off the manufacturing line. I'm in BA heaven today. I guess the person who refurbered it put in over 100 hours into this project. I got his phone number and will give him a call tonite. I guess he has full documentation on the rebuild with all progression pictures to boot. He told the owner of Recyclers that he'd give them to whomever bought the radio. It will be nice to include this in my files as it is part of this radios history. --- The radio works A1 ---

Anyhow, as part of the deal I had him throw in an old Hallicrafters HA-1 T0 Keyer that was sitting there. It was dirty, but there were no scratches. Got it home and found one bad contact on one of the 12AU7 tubes. Cleaned and shined it up and it looks brand new. The only problem is the audio on it is just bad. It sounds like something from a square wave osc (cheap 555 sound). Plus it will change pitch every so often. Well this keyer didn't come with a manual. Thus the reason for this notice (sorry had to brag about the NC100 first),

NEEDED: Manual with schematic for a Hallicrafters HA-1 T0 Keyer.

Photo copies are most welcome. Will pay for any expenses to copy and mail.

Thanks for listening,

73

Don Buska N900

d.buska@advantest.com

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: spindob@water.ci.seattle.wa.us

Subject: Hammarlund Linear Questions

Message-ID: <199511272055.AA00428@relay.interserv.com>

Fellow BA's

I was unaware that Hammarlund put out a linear amp. I believe it was the HXL-1. Has anyone got any info on how much power they put out and were they a decent rig? I have found one for sale at \$250 I'm not certian whether this is a good price. The rig looked to be in good condition.

Thanks & 73's

Brian

KA7KUZ

spindob@water.ci.seattle.wa.us

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995

From: "C. R. (Bob) Zinck" <crzinck@fox.nstn.ca>

Subject: Re: HP 410B VTVM

Message-ID: <199511270439.AAA28541@Fox.NSTN.Ca>

> > I need a replacement tube that goes in the R.F.probe, number is 2-01C
> > made by Eimac. Could I replace this tube with a modern-type diode.
>
> I would guess not, because vacuum tube diodes have zero forward voltage
> drop (when driving a high enough impedance load) while all semiconductors
> have a minimum voltage drop (about 0.5V for silicon).
>
> You may be able to use a "back diode" which is a silicon diode that has
> essentially no forward voltage drop, but very little ability to withstand
> reverse voltages.
>
> Would a 6AL5 work?

I once made a probe for a 410 using a 6AL5 mounted in a 3/4" copper pipe.
Required a bit of fiddling to stuff it all in, but it worked. I checked it
out up to about 150 MHZ and it seemed to track pretty well with an
original HP probe. Any port in a storm.

Rgds.....Bob....

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995

From: "Allan Fritsche" <fritsche@msn.com>

Subject: IF 1 more time

Message-ID: <UPMAIL03.199511270105300428@msn.com>

From: USSAILIS@forum.phast.umass.edu

Sent: Sunday, November 26, 1995 12:57 PM

Subject: Re: IF alignment- am I crazy

Careful. Noise is proportional to temperature, noise figure, and BANDWIDTH.
You want to align for the proper bandwidth and maximum signal-to-noise ratio.

The best alignment is done with a sweep generator. This allows you to control

bandwidth.

Jim, W1EQ0

Jim, I agree with everthing you say. The guy who made me align the R-391 on noise was only interested in (1 freq, and 1Bandwidth). I think he wanted to get promoted or something. I've got a few cheapo boats, S-38C, S-85 and the lowly Heath Hr-10b and Ive aligned the IF's only on noise. I,am sure that was a mistake now. I do have plans for a universal sweep circuit just for aligning receivers and I will probably build now if I can get the coils. I have a touch of arthritis and its hard to wind my own on ceramics (if you can find) or toroids.

At least I have a real decent scope , a HP-465b, so I think i'll give it a shot.

Thanks for you reply
Al Fritsche
fritsche@msn.com

BTW, It was the T-368's that I worked on mostly, we did have a couple of BC-610's that almost electrocuted me one day.

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Inrush current limiters, the sequel
Message-ID: <m0tKA6s-000Ts9C@spider.lloyd.com>

Gang,

Last week while we were off doing the turkey thing, I received several requests for more info on the inrush current limiters I've used in several of my rigs. Here, at long last, is the low down on these things.

SUMMARY

I've settled on two versions that are both available from DigiKey. So far I've been motivated only to put these in transmitting equipment.

For "small" rigs, such as a GSB-100, I use a limiter rated for 5 Amps continuous current: Digikey # KC006L-ND.

For "large" rigs, such as a DX-100 or my GSB-201 amplifier, that draw more than 5 Amps, I use an 8 Amp limiter: Digikey # KC003L-ND.

HOW TO CHOOSE LIMITERS FOR YOUR APPLICATION

My view of how to get the maximum benefit out of one of these things is to look for a limiter that satisfies all (or most) of the following requirements:

1. Largest possible ratio of "no-load" resistance to the resistance at maximum current. This range of resistance change is what provides the soft start.
2. Voltage drop of no more than about 1% of line voltage at the maximum current the radio will draw. Why 1%? Too much voltage drop and you get a lot of heat generation in the limiter and you run the risk of degrading the performance of the radio. Not enough and you end up with a limiter that provides a less pronounced soft start effect. 1% seemed to be about the right compromise point.
3. Current rating that exceeds the maximum steady state current draw by your radio. And really the maximum steady state current rating for these things is valid only at a temperature of 25C. You really want to derate the Ampacity a bit, but unfortunately no derating curves are given in the DigiKey catalog.

CAVEATS

In normal use, these things get hot. They are supposed to. Locate them such that the heat they give off won't affect other components.

The limiters exhibit a negative temperature coefficient. Paralleling two or more to get a higher current rating isn't likely to work well. Why? The one that has the lowest resistance will hog the most current, generating the most heat, therefore lowering its resistance further, and drawing even more current.

.oOo.

So there you have it. The short version of what I've used and how to select limiters for your own application. I'm real pleased with the effect these have had on the radios in which I've installed them. In all cases, the radios turn on smoothly and quietly, which is in marked contrast to their turn-on behavior prior to limiter installation.

If there are any questions about these, I'll collect them for a day or so and then post a follow-up message to address them all at once.

Jim - km6nk

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Re: Inrush current limiters, the sequel
Message-ID: <Pine.3.89.9511272248.A28666-0100000@inet.uni-c.dk>

Reading about all this sophistication, my own solution way back comes to mind.

I put a big 100W lightbulb in series with the power cord for my PA and shortened it when I was going to HOT STANDBY Hi.

Cheap and easy.

73 Rag OZ8RO

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>
Subject: Re: Jhonson 500 mod. Iron?
Message-ID: <Pine.A32.3.91.951127021943.33623A-1000000@violin.aix.calpoly.edu>

Bruce:

One possible source is \$\$\$\$\$\$ P. Dahl out of El Paso, Texas. Another is Lucas Xfmrs out of Michigan someplace (check issues of ER). But one noteworthy item to do when you replace your transformer is to put a delrin sheet under the transformer and isolate the transformer from chassis ground. The main intent here is to reduce the high-voltage stress to the transformer (see the article in ER regarding W6BM's restoration of his Collins AM broadcast xmtr). That otta do it. Good luck and 73's. Cal.

On Fri, 24 Nov 1995, Bruce Gavin /KD1MW wrote:

> Hello to all:
> Is there anyone who has experience with or knows of a
> source for a modulation transformer for a Johnson Five Hundred Transmitter?
> The original mod. transformer fails hy-pot test. Tests show 2ma. leakage
> at around 500vdc to ground both on primary and secondary windings out of
> circuit. Any suggestions will be appreciated. Thanks. Bruce KD1MW
>
>
>

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: EKnobloch@aol.com
Subject: Re: Johnson 500 mod. Iron?
Message-ID: <951127151651_117639693@mail06.mail.aol.com>

On 11/27 Cal Eustaquio wrote:

>...one noteworthy item to do when you replace your transormer is to put
>a delrin sheet under the transformer and isolate the transormer
>from chassis ground...

"Floating" the modulation transformer or the HV tranformer of a rig to reduce the stress on the insulation sounds like a good way to get somebody killed. If a short develops between one of the windings and the iron, no fuse will blow. The iron will lay in wait for someone to touch it to see how hot it's running, and "good-bye".

73
Ed Knobloch K4PF

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: W7FG@aol.com
Subject: Johnson Desk KW
Message-ID: <951126214950_34831152@emout04.mail.aol.com>

My Johnson Desk KW must go to make room for new aquisitions.
The Desk is active from 160 to 10 Meters.
Right hand desk (Desk is to the right of the Pedestal).
Chair is also available that supposedly was bought form EFJ when KW was purchased.

I'm asking \$2500 for all.

Physical condition is good, the top of the desk has Pings from years of service.
I have one spare meter movement that is new.

If interested call me at 918-333-7893 in the evenings.

73's Gary W7FG

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Kids & Radios
Message-ID: <60604.ddillman@igc.apc.org>

On Sun, 26 Nov 1995 09:29:35 -0600 (CST),
Neal McEwen <nmcewen@metronet.com> wrote:

>>
>> Do kids these days still hang around in awe at hamshacks?
>>
>Nope, the best we can hope for is hanging out at a computer store.
>Most of them are "hanging at the mall". Where did we go wrong in
>creating interesting avenues for teens to pursue ?

Where did we go wrong? I wonder. In my case, the obsession was there
- from who knows where? - and we somehow found the places where we
could pursue it. I was lucky enough that an Air Explorer
squadron devoted to ham radio was established at the local Air Force
base just at the right time for me to join it. I often think of the
man who caused that to happen (K2BK0) and what thanks we all owe him.
I suppose that's the kind of thing you mean when you talk about
creating interesting avenues for kids to pursue.

According to some of the other messages on this topic it seems there
may be plenty of kids who would enjoy the radio hobby. Maybe there
are fewer of us who are willing to make the effort K2BK0 did. And I
know that many of my friends, when they hear foreign broadcasts on the
big Zenith in the living room - forget about the R-390A/SX-28A, etc.
in the back room - are amazed. Even today in the age of instant,
global CNN satellite coverage I enjoy watching them getting their mnds
around the fact that there's nothing between London and San Francisco
but air.

Best Regards,

Dick Dillman/WPE2VT
<ddillman@igc.apc.org>
San Francisco

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: bill@texan.frco.com (William Hawkins)
Subject: Local radio store
Message-ID: <9511270426.AA10886@texan.frco.com>

Visited Acme Electronics in Minneapolis over the long weekend.

It's an old store, with some stock that goes back a ways. But when I asked for .01 mfd at 4 or 600 volts, the counter man could only find some short lead printed circuit board units. Then he says he never saw a set where a ceramic disk wouldn't work just as well, so I bought 20. Well, they're OK for bypass, but they make pretty good temperature sensors. And the 'Q' on a GR 1650A bridge is around 35, not near infinity, so they leak (or absorb humidity).

They didn't have Caig products, so i bought a can of generic contact cleaner. The same guy tells me that he's never seen anything better than LPS-1 for cleaning contacts without damage to plastics. Before I gum up a switch with this light lubricant, has anybody ever tried it? I expect it's like WD-40.

Part of the old stock includes some boatanchor power transformers. There was even a 6.3 volt at 150 amp transformer for \$30. Didn't ask about tubes, though. Don't think I'd'a liked the prices.

Bill Hawkins bill@bvc.frco.com 612 895-2085 Minneapolis, MN USA

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: rmccarty@deltanet.com (Roger McCarty)
Subject: Looking for; B&W 851
Message-ID: <9511270431.AA25009@server1.deltanet.com>

Looking for a Barker and Williamson 851 Pi-net. If you have one to let go of or know of someone who does, I would appreciate hearing from you.
Roger KD6CC

Roger A. McCarty
rmccarty@deltanet.com
ARS KD6CC

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Nasal irrigation: Not to belabor, but...
Message-ID: <9511271529.AA07720@syseng1.se.melpar.esys.com>

Not to make a thread out of this subject, but in the absence of a rubber bulb just take a large water glass and fill it to the brim with saline solution (I use a tablespoon of salt per glass, well-stirred in warm water). Whilst standing over the sink, just "snort" it up into your nose. Does a fine cleaning job.

Also, my doctor recommends using a good decongestent at the first sign of sinus pressure buildup; this facilitates clearing the passages and prevents the onset of infection. My doctor prescribes Zephrex, which works very well for me. If you have chronic sinus problems, as I do, your doctor should be willing to give you a prescription plus one refill to help you avoid the infections.

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Nasal irrigation: Not to belabor, but...
Message-ID: <Pine.SV4.3.91.951127081406.26839B-100000@uhunix5>

Gee, it would be a lot less painful take a trip to Hawaii or Florida. A couple days swimming in the warm tropical (and very salty) ocean will clear up any nasal problems.

Been swimming daily in the warm Hawaiian for 18 years and never had any problems...

Jeff NH6IL

P.S. Just think, if you come to Hawaii you'll be DX!

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Vlad Dvorkin <dvorkin@pcs.mot.com>
Subject: New group member
Message-ID: <199511271849.NAA06099@iron65>

Gentlemen,

I would like to introduce myself as a new member of the Boatanchor Group. My name is Vladimir Dvorkin and my main interests are restoring and collecting of WWII (and older) German military communication receivers and transceivers. I also develop and build my own receivers.

I came to USA 15 years ago from USSR (Moscow, Russia). Back in Russia I had a very good collection of Russian and German military radios from late 20s to mid 40th. I lost my collection at the time I was forced to leave the country.

My present collection consists of German tank radio set 10WSC/UKWe and nothing else.

I am looking for any WWII or older German military communication receivers, both TRF and superheterodyne, transceivers, parts and tubes. I also have very focused interest in Russian equipment, I am looking for P-250 receiver (or P-250M, or P250M2).

I can offer for the Group some expertise and knowledge of old German & Russian (old and recent) communication equipment.

Regards,
Vlad
ex. UA3ACR

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+-----+
| Vladimir Dvorkin          | Senior Staff Engineer |
| CableComm - Multimedia Group |                       |
| Motorola, Inc.           | Phone: (708)632 5093  |
| 1501 W. Shure Drive      | Pager: (708)576 0295 11163 |
| Arlington Heights, IL 60004 | Email: dvorkin@pcs.mot.com |
|                           | Fax: (708)435 0013    |
+-----+
```

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: jmartin@hrlban1.aircrew.asu.edu
Subject: Old book of radio projects for boys
Message-ID: <SA39+fiXika@hrlban1.alhra.af.mil>

BA'ites,
I recently got the reprint of the Morgan book of boys' electrical projects from Lindsay Publications, and it jogged memories. In the early 60s, about when I was in 4th-5th grade, I was fascinated by a book (it was right beside the Morgan book on the shelf) in the school library dealing with small demonstration radio setups a youngster could make using commonly available tubes, lecher wires, and small lightbulbs hung across them. I vaguely remember the receiving setup having similar rods for an antenna, and the thing was meant to be used indoors. I understood this was a homebuilt transmitter, but the rest of it went above my head. I can't remember the title or author. Does this book ring a bell with anyone?
73, John Martin
jmartin@hrlban1.aircrew.asu.edu

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: "Carcia, Joe, NJ1Q" <jcarcia@arrl.org>
Subject: Old RCA R-32
Message-ID: <30BA1188@arrl.org>

I realize this is not necessarily amateur related. But, I appreciate the opportunity to post this message.

Does anyone know of a good source for parts--a source that deals mainly with RCA? Antique Electronic Supply is okay (and I have used them in the past) but they do not carry the particular items I need.

Please email any replies to jcarcia@arrl.org.

Joe, NJ1Q

Hello all,

Many thanks

\\HAMMARLUND COLLECTOR//

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Sandra L Knepper <slkst29+@pitt.edu>

Subject: Re: powder coating & silk screening

Message-ID: <Pine.3.89.9511261904.C22289-0100000@unixs1.cis.pitt.edu>

In my opinion, the best panel and cabinet refinisher is "Finishing Touches" operated by Ron, AB5WG. His address is 115 First Street, Sugar Land, TX 77478, Phone: 713-491-7823 after 6 PM CST. He has done Hammarlund SP-600 front panels. The two that he did for my Johnson Rangers were nothing less than spectacular.

Tell Ron that I sent you when you call.

Dave, W3BJZ

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: jschwart@ix.netcom.com (John Schwartzberg)

Subject: Precision Instruments 912

Message-ID: <199511271708.JAA00859@ix7.ix.netcom.com>

Hi Gang:

Came into a Precision Instruments 912 tube tester over the weekend. Anyone have a manual for it? Anyone have any thoughts or comments about it (besides the already documented thread about the absence of such equipment at various companies, etc.)?

Your input is appreciated...

John

N0GII

jschwart@ix.netcom.com

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: "Chuck Rippel" <crippel@exis.net>

Subject: R390A Cosmos PTO ??'s

Message-ID: <199511271925.0AA20988@marlin.exis.net>

I have an EAC R390-A (1967) contract which I essentially got new out of the box. I had a few problems on of which I ended up sending the RF deck up to Miltronix in Toledo, OH to fix. I think the problem will be a cap which has become slightly leaky or changed value in the 2-3 mHz variable IF. Spend 10 hours or so looking for it and swapping out parts to no avail.

My question to the group is:

It had a Cosmos PTO in it. Unfortunately, the end points wouldn't set up and I had to swap the PTO out of my "junker."

I have heard of taking the PTO apart and taking one of the 3 or 4 turns off the compensator coil to bring the range of the adjustment back in.

There are bags of dessicant in the PTO plus, it had been pressurized with nitrogen.

I have not problem taking the PTO apart and taking the turn(s) off the coil in as much as I did it before on a junker PTO and brought it back where the end points set up.

Can I remove the bags of dessicant and dry them out in the oven for 12 hours or so and re-use them?

Does anyone reputable rebuild those PTO's for a reasonable cost?

Any other general thoughts on this matter from the group?

Please drop me an E-Mail. Thanks.

+++++

Chuck Rippel
crippel@exis.net

+++++

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: RATs
Message-ID: <9511271645.AA06889@bock.ih.att.com>

I saw a blimb TX at the Greyslake, IL fest.
Amazing -- 4 or 5 feet tall, looked like it needed 3 guys to pick it up -- but it was *so light*. Couldn't have been much iron in its aluminum structure, besides the mod xformer. The owner said it ran on 800-Hz power -- that was a new one on me, having run into the 400-Hz mil stuff, but nothing higher.

I do see that some mil test gear is rated 50-1600 Hz, so some setups must have gone even over 800.

The Space Station is supposed to use 20 KC or some such AC freq, to save even more weight (and spend more development \$\$\$). 73, mike w9nrd

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Nick England <nick@cs.unc.edu>
Subject: Really Great Book
Message-ID: <199511272107.QAA12085@altair.cs.unc.edu>

Boatanchorite Chuck Penson WA7ZZE now has his book out on Heathkit ham gear.

I just got my copy and have to say this is clearly both a great reference book and chock full of info on Heath history and design decisions. Fascinating reading about the company that had such a great impact on ham radio.

It is advertised in Electric Radio and I'd recommend it highly even if you aren't a rabid Heath fan like me....

Great job, Chuck.

Nick KD4CPL

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>
Subject: RF choke color coding
Message-ID: <199511272204.0AA24896@mozart.bcit.bc.ca>

I am a bit unclear on the color coding scheme used on some encapsulated RF chokes to show their value. I am referring to the small chokes that look like resistors.

In selecting a value of 10 milli henries for example the first color would be brown, the second black, but how is the multiplier coded?

Would the base unit be micro henries? If so then a multiplier color of orange would be X 1000 and a black brown orange code would be 10,000 micro henries or 10 milli henries?

Would this be correct?

Any clarification would be appreciated.

By the way the above style chokes would not necessarily be vintage but I plan to use some in boatanchor equipment if I can sort out the color codes.

Colin Schmutter
Networks and Communications
British Columbia Institute Technology
CSCHMUTTER@BCIT.BC.CA

(604) 432-8858

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
Message-Id: <13114_KC3ET@kb4cpw.bbs>
From: n3bpb@kc3et.#swpa.pa.usa.noam
Subject: SUBMARINE HELP NEEDED

R:951127/0200Z @:WB0TAX.#SHRV.LA.USA.NOAM #:26868 \$:13114_KC3ET
R:951127/0152Z @:KE4CRB.#TPA.FL.USA.NOAM #:50145 [Tampa] \$:13114_KC3ET
R:951127/0046Z @:W3IXR.#SWPA.PA.USA.NOAM #:839 [PGH] \$:13114_KC3ET
R:951127/0147z 30935@KD3AI.#SWPA.PA.USA.NOAM \$:13114_KC3ET
R:951127/0142Z @:K3MJW.#SWPA.PA.USA.NOAM #:47404 [FN00DM] FBB5.15c
R:951127/0102Z @:KC3ET.#SWPA.PA.USA.NOAM #:13114 [W.Mifflin PA] \$:13114_KC3ET

From: N3BPB@KC3ET.#SWPA.PA.USA.NOAM
To : SUBS@ALLUS

Ahoy mates:

The USS REQUIN a Tench class submarine is looking for DONATIONS of radio's to furnish the radio room of the sub. The USS REQUIN is now moored and in service as an exhibit at the Carnegie Science Center, in Pittsburgh, PA where the Allegheny and Monongahela Rivers form the Ohio River. The radio room is maintained and staffed by members of the BREEZE SHOOTERS radio club.

Of interest to the crew are;

1. WW2 vintage J-36 type bug.
2. Military radios from 1945 to 1968 as would be appropriate to this class of submarine during its active service, including tubes, manuals, and etc. Sorry no RTTY needed.
3. 1950s low to medium power A.M. transmitters (Viking, Ranger, Challenger, Globe Scout, etc.)
4. Original calendar and submarine memorabilia from 1945 to

1968.

Contact: Jack J. Buzon, KA3HPM
KA3HPM@W2X0.WPA.US
R D 2, Box 118
Grubbs Road
Cheswick, PA 15024-9648
phone: 412-265-4237

Brian Roberts, K9VKY
3968 Evergreen Road
Pittsburgh, PA 15237
phone: 412-931-4646

de: N3BPB@KC3ET..WPA.US

----- End of forwarded message -----

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: steve@hi.com (Steve Byan)
Subject: sweep generators
Message-ID: <v02130506acdf9ebbfc22@[140.243.30.128]>

Jim, W1EQ0 <USSAILIS@forum.phast.umass.edu> recently commented:
>The best alignment is done with a sweep generator. This allows you to control
>bandwidth.

What's out there for sweep generators? I recall some discussion of antique wobblers on the list, but I'd hope for something of a little more recent vintage. I recall seeing a Knight-kit sweep generator in a 1970 Allied catalog. Fair Radio lists an HP 8601A sweep generator, but it's kinda pricey and I don't really understand what it does. (Perhaps it doesn't even have tubes - looks kinda modern.)

Regards,
-Steve

Steve Byan
Hitachi Computer Products (America), Inc.
1601 Trapelo Road
Waltham, MA 02154

internet: steve@hi.com
phone: (617) 890-0444
FAX: (617) 890-4998

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: Michael.J.Knudsen@att.com
Subject: Re: sweep generators
Message-ID: <9511272025.AA07015@bock.ih.att.com>

The hard thing to find is a sweep gen suitable for aligning an AM rx. Most were made for FM and TV, so had high output frequencies and very wide sweeps (250 KC for FM up to 6+ MC for TV).

The FM jobs should put out 10.7 MC, and TV jobs may have 4.5 MC for the TV sound IF. Any shortwave rx that tunes those freqs can be aligned with such a generator, if you can stand the wide sweep.

The Hickok 288 and some others discussed here have deliberate provision for AM work -- try to find one of those.

More recently there are audio-thru-low-RF solid-state units by WaveTek and others. I got one of these, but most of its functions seem not to be working right, and it's designed not to be taken apart for repairs (despite Made in USA plate and lack of ICs). But a good one goes to 1 MC with sine or square wave output, so could probably be used as a wobulator, which is what I bought mine for (and would sell it cheap).

Anyway, the bottom line is: "Sweep generators" are a dime a dozen, every radio/TV shop had at least one -- but very few are good for AM alignment.
Gud luck es 73, mike k w9nrd

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: sweep generators
Message-ID: <199511272305.RAA11888@zoom.bga.com>

The only 455Khz. sweep generator I can recall using was a homebrew. It was one we had at Millen. Use a BFO transformer with a convenient triode to get the frequency. These are always hooked up in a tuned grid configuration. Use a pentode as a reactance tube. To do that, rig up the pentode with a plate load resistor, and connect a small cap from the plate to the oscillator grid. Put a self-bias resistor in the cathode of the reactance tube grid. Feed both from about 150 volts. You can take the output from the plate of the oscillator, through a fairly large resistance and a cap and either feed it directly to the circuit or add a cathode follower to keep loading down. I prefer the latter. You will want output from around 10 microvolts to a around a volt, for feeding into various circuits.

To go "classic" you can use a pair of 76's and a 6C6. However, a 12AU7 and a 6AU6 will work just fine. You can use the 6 volt heater supply

through a pot to the grid of the reactance tube as a sweep frequency. The pot will control the width of the frequency sweep. Put a variable cap across the BFO coil to adjust the center frequency. The size of the cap from the reactance tube controls the max/min sweep range. Something like 100 to 220 pf. should do it. Feed the output of the generator (through a DC blocking cap somewhere in the circuit) to the grid of the IF stage you want to calibrate and provide the 6 volt (or whatever you use to drive the sweep) sweep voltage to a scope horizontal input. The scope vertical should get the detector output.

For markers, you'll want something like an accurate 1Khz or 5Khz, with plenty of harmonics. One trick that will work, using a sine wave oscillator, is to suppressor modulate the output CF or use a pentode for the oscillator and suppressor modulate it. Suppressor modulation is not very linear, so you should get some good harmonics out of this, even if you are using something like an HP200CD to generate the marker frequency. To calibrate the thing, put 455Khz into the marker input and adjust the variable cap to center the RF oscillator. Using the heater voltage (ground one end of the heater circuit) you'll get a swing around both sides of center.

For getting some B+, you can use the little transformers that Mouser is selling. Buy a heater transformer for the heaters, and a 115/230 VCT transformer, and rig up a full-wave rectifier with something like 1N4005's. Current draw of the whole smash is about 30 ma., so it should not be too hard to rig up a capacitor input pi filter with adequate ripple control----a pair of 20 or 40 mike caps and a couple hundred ohms between them should do it. You'll probably see about 130-145 volts out of this, which is plenty.

That should make someone a nice little project. An ideal platform for building this would be an old Hickcock or Lavoie Tek-wannabe letter series plug-in. Plenty of tube sockets and suitable tubes, space for mounting components, holes for controls, and even one or two UHF connectors on the front panel. I leave the engineering details up to the experimenter.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: Re: Tek 570 and "off the wall" project...

Message-ID: <8223EDE1EAB@sbii.sb2.pdx.edu>

Sure, I'd be interested in what you come up with.

Good Luck,

=Randy=

Randy Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: scott@hplst.lvld.hp.com

Subject: Thanksgiving AMI bash wrapup.

Message-ID: <199511271711.AA024422297@relay.hp.com>

The second annual AMI bash is history and, I believe, a qualified success. Apologies to some of the more distant stations that had trouble getting in early. We had some intentional interference from a couple of sideband stations. (They came up on our frequency and actually *complained* about all the carriers they had to put up with... wouldn't move off when asked politely. Nuts.) We were a bit disorganized at first, but things did settle down, and I think a good time was had by all.

Larry, KG0PJ, has volunteered to send out special certificates to all who participated. Look for yours in the mail soon if you checked in. In an effort to further hook some of the guys who were operating the mode for the first time, he'll also be sending out information on the Colorado Morning AM net (3808ish, MWF at 7:00 AM local) and perhaps other local AM hotspots.

I did note several BA list members managed to check in. Thanks to those folks who participated and, again, apologies to anyone who tried to join us but couldn't get recognized. Hope you enjoyed listening in anyway.

The final tally for the day was 60, with stations as far south as Arizona, Texas and New Mexico, and as far north as Montana. It was a lot of fun, and we already have some suggestions to help make it better next year. Look for further details in an upcoming issue of ER.

Personal note: I learned just how much the selectivity was improved from the 75A1 to the 75A2. Stations off to one side or the other were

killing me but not affecting OJ, just 2 miles away, at all. His A2 was clearly *much* more selective than my A1.

Scott Turner KG0MR scott@lvld.hp.com

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: johnmb <johnmb@nando.net>
Subject: TV10D Tube tester input sought
Message-ID: <Pine.SUN.3.91.951127103717.17047B-100000@parsifal.nando.net>

I have an opportunity to get one of these testers...
can anyone with experience with them advise their
suitability for BA work?

Also, does anyone have any scroll charts for a Hickock 600
tester, that are later than 1957? :-)

Thanks in advance...
/john

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: TV10D Tube tester input sought
Message-ID: <Pine.ULT.3.91.951127101306.6661A-100000@admin.aurora.edu>

On Mon, 27 Nov 1995, johnmb wrote:

>
> I have an opportunity to get one of these testers...
> can anyone with experience with them advise their
> suitability for BA work?
>
> Also, does anyone have any scroll charts for a Hickock 600
> tester, that are later than 1957? :-)
>
> Thanks in advance...
> /john
>

Hi John. I have a 600 myself. Has anyone determined if Hickok is still in
business? I may have a newer roll chart than 1957. I purposely left the
older one in mine since the newer one dropped off a lot of the older tubes
I use. I would not get rid of my newer chart but if you can't get what

you need from Hickok, then I could at least copy mine for you.

Bob, K9EUI

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: WJoeW@aol.com
Subject: USM-25 sig gen
Message-ID: <951127170114_35665198@emout06.mail.aol.com>

Someone sent me a message re my ad which I mistakenly deleted. Try again.

Joe

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: Virginia Ham
Message-ID: <01HY58KUJ9S00014NV@ACS.EKU.EDU>

Congratulations - and let me encourage you to get on the air in the Novice HF CW bands to work on getting the code speed up. I have seen so many people get the license and go 2 meters for about a year, then wither away having talked to everyone they can in a 30 mile radius of the repeater.

The on-the-air CW is MUCH more fun than straight code practice from computer or ARRL - and you learn operating practices and procedures and have the fun of actually using the equipment. Will look for you on the air!

73, Al N5AIT

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Re: Virginia Ham!
Message-ID: <9511271513.AA07507@syseng1.se.melpar.esys.com>

>Now I've gone and done it: I'M A HAM! Took and passed a plethora of
>tests in Manassas today, including 1A and all the written elements
>up through 4B, and I've got the CSCE to prove it. Whoa Nelly! The
>only thing between me and Extra is 20 wpm. Guess I'll finally get
>to use some of the great BA's I've been accumulating (at least on
>the novice freqs, until I become literate.. ;-)

Well, CORN-gratulations, OM! Now we can *REALLY* talk some "ham trash!"

We'll soon get you over that CW hurdle, too; can't let those CSCEs go to waste! I'll be talking to you this week.....

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: Water-cooled 6L6
Message-ID: <199511271856.KAA13383@hobbes.UCSC.EDU>

I would guess the reason you don't hear stories about any others are that there aren't any other metal tubes of equal or greater power rating, and if you were going to use a smaller tube it would be easier to substitute a 6L6 and air cool it.

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: rmccarty@deltanet.com (Roger McCarty)
Subject: What is a Johnson VII "CD"?
Message-ID: <9511271657.AA00807@server1.deltanet.com>

Hello!

What is a Johnson Valiant II with a "CD" suffix?
..Civil Defense?Modified for other freqs?
..Usable on Ham Bands?
Any info is appreciated.

Roger A. McCarty
rmccarty@deltanet.com
ARS KD6CC

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: JOHN BERENYI <JBERENYI@cc.weber.edu>
Subject: WTB URM25-D accessories
Message-ID: <01HY4XIFW4N88WXM5E@cc.weber.edu>

If you have anything...please let me know. Fair Radio will not sell them seperately.

John Berenyi

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995
From: pmills@cyberhouse.com (Phil Mills)
Subject: wtb: 75A4 mech filter clamp
Message-ID: <199511271923.NAA06467@ns.cyberhouse.com>

Anyone have one they want to sell? Or, anyone know of a commercial source?
Or, do most 75A4 owners do without if they are missing?

thanks,
Phil

Phil Mills, AB5TH
pmills@cyberhouse.com
713-482-2763

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: "Integration Area" <integrat@usr.com>
Subject: WTB: Aircraft control box rails
Message-ID: <9510278174.AA817493768@robogate.usr.com>

Maybe you guys out West can help me...

After World War 2, aircraft control boxes started fitting a standard for mounting in the cockpit, generally on either side of the pilot(s). They are about 6 inches wide, and come in standard heights, much like normal rackmount equipment. The fasteners are quarter turn types. The rails have matching holes (with a bit of steel wire to catch the fasteners) spaced at increments of a half inch or so.

I have accumulated quite a few of these boxes for all kinds of equipment, and now would like to mount them so they can be used and/or seen. The problem is that the rails these boxes mounted in are not to be found, at least in the Midwest. I have seen very short pieces on some Aircraft Radio Corporation test equipment, and some long pieces in a Voodoo simulator, but that is it.

If any of you have any decent pieces, maybe 2 feet or longer, I would like to know.

Thank you.

William Donzelli

integrat@usr.com

I

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: john <johnmb@nando.net>
Subject: WTB: Audio Generator
Message-ID: <9511262252.AA14425@merlin.nando.net>

I'm looking for an inexpensive AF generator... Heath type
or equivalent is fine.....

Thanks!
/john wb5oau/4

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: Yaesu FL-2100Z - comments pro/con pls.
Message-ID: <Pine.OSF.3.90.951126204208.5530A-100000@govonca2.gov.on.ca>

Gulp, yes, sorry - it does have tubes, is heavy but is not U.S. made (2 out of 3 ?).
Anyhow, to beg your indulgence, in case someone on BA will admit it (hi), I am interested in comments on use, results, endurance (any funny problemetic areas like oddball relays and likely failure areas) in relation to the Yaesu FL-2100Z linear amplifier.
I assume confidence in the 572B tubes at least.

Thanks. Please reply direct to me by e-mail. Anyone interested in the content of the replies that are mailed to me (and not posted to BA list) feel free to email me and I will forward the contents of informative replies to you directly.

Thanks,

Brien
Toronto

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995

From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: Young hams
Message-ID: <199511270236.SAA09016@hobbes.UCSC.EDU>

>From: "Dick Dillman" <ddillman@igc.apc.org>
>According to some of the other messages on this topic it seems there
>may be plenty of kids who would enjoy the radio hobby. Maybe there
>are fewer of us who are willing to make the effort K2BK0 did. And I
>know that many of my friends, when they hear foreign broadcasts on the
>big Zenith in the living room - forget about the R-390A/SX-28A, etc.
>in the back room - are amazed. Even today in the age of instant,

Maybe that goes some way toward explaining it. When I was a kid practically everybody had a home radio with shortwave bands on it, even if they never used them. And amateurs talked in AM, so one of those radios could get amateurs. Now you don't find radios like that anymore in people's homes, and you can't copy amateurs without a BFO and a good hand. Plus everywhere there are local AM stations, so it's hard to engage in even AM BC DX-ing. (and even if you did, they are all getting the same programming via satellite, so you don't hear much of what's different in different localities) Tho I'll qualify that - last January while serving as operator at a Red Cross shelter for flood victims I turned on an AM radio about 5:00 AM local time, and was treated to a very strong signal from a BC station in Wisconsin, where the programming was dominated by matters like the price of cheese (really!) and how to care for your dairy cattle.

What if you could get a class of school children to all listen to AM BC radio during hours of darkness, esp. after local midnight and before local 6AM, and see how many stations they can identify and log, find on the map, and tell what they heard on the stations' local news. Well, maybe not, maybe all they would hear is call-in shows devoted to conspiracy theories and sightings of Elvis.

From boatanchors@theporch.com Mon Nov 27 17:11:00 1995
From: John Shriver <jas@shiva.com>
Subject: Re: [BOATANCHORS:10514] Re: Glue for Delrin Pots in Tek Scopes
Message-ID: <199511271532.KAA04091@shiva-dev.shiva.com>

If the Tek pots are Delrin, they are doomed to crack. Delrin has this nasty feature of shrinking over time. (Model railroaders are very acquainted with this problem.) It shrinks quickly at first, and then slows down. For machined parts (like gears), one wants to use well-aged Delrin. Since the Tek variable pots are cast, that's not really an alternative.

The pots in one of my 3A3's had been somewhat sucessfully repaired using epoxy. Still, they were cranky and noisy, so I bought

replacements from Deane Kidd. (Not inexpensive, but the 3A3 is worth it. Also quite tedious to replace, and I just can't do it as neatly as Tek's assemblers did.)

I suspect that the little 1" thumbwheel knobs (plastic over an aluminum hub) are also Delrin. Every one that came on my Tek stuff (P6028 probes, 3A5, 3A7, & 3B5 plugins), came cracked. Generally right at the molded-in marker. They were used on some moderately recent Tek equipment, I got replacements for one P6028 from Tek. This is a case where you want the "newest" old stock!

From boatanchors@theporch.com Mon Nov 27 23:20:00 1995

From: Michael.J.Knudsen@att.com

Subject: Re: [BOATANCHORS:10514] Re: Glue for Delrin Pots in Tek Scopes

Message-ID: <9511271714.AA06932@bock.ih.att.com>

Ah hah! Delrin -- the modern equivalent of Pot Metal.

Well, if Victor and RCA could slip up and use pot metal in otherwise superbly designed and built products (and they did!), I guess Tek can screw up and use Delrin.

>From his heavenly perch, Leonard da Vinci must be looking on in sympathy -- he painted "Last Supper" with new experimental paints, and watched the colors fade away even in his lifetime. So Tek is really in good company. So I won't mention the selenium rectifiers, which were good enuf for Zenith.... 73, mike k w9nrd